INDEX TO VOLUME III

Abdomen, Pathology in right upper, L. J. Carter, 189.

Abdomen, X-ray examination of upper, for malignant disease, H. M. Tovell, 523.

Acne vulgaris, Roy Blosser, 496.

Aneurysm of aorta, Roentgen diagnosis of, E. C. Samuel, 160.

Arthritis, Age factor in hypertrophic, T. A. Willis,

Atelectasis as roentgen-ray sign of foreign body in air passages, W. F. Manges, 300.

Backache from vertebral anomaly, T. A. Willis, 491. Bacterial invasion of blood stream as influenced by X-ray destruction of mucosal epithelium of small intestine, S. L. Warren and G. H. Whipple, 87.

Biophysical law governing surgical mortality, G. W. Crile, 523.

Blood counts and basal metabolism of leukemias under roentgen-ray treatment, K. R. McAlpin and B. J. Sanger, 144.

Bone marrow, Effects of X-rays on, E. H. Falconer, L. M. Morris and H. E. Ruggles, 135.

Bone tumors, Clinical and pathologic study of ten, J. J. Morton and W. C. Duffy, 88.

Cancer, breast, Metastasis in, W. A. Coventry, 522. Cancer, Factors regulating cellular growth and their importance in the explanation of, Montrose T. Burrows, 527.

Cancer, Influence of radiation therapy on study of, James Ewing, 485.

Cancer, intra-oral, Treatment of, Douglas Quick, 450.

Cancer, Limitations in radiotherapy of, F. C. Wood, 59.

Cancer of cervix, S. Forsdike, 363.

Cancer of cervix, Action of radium upon, T. Zbinden, 89. Cancer of esophagus in general practice, G. F. Hels-

ley, 272.

Cancer of larynx, Intrinsic, H. Smith, 363. Cancer of uterus, Clinical observations in treatment of, A. J. Ochsner, 401.

Cancer of uterus, Treatment of, C. W. Moots, 90. Cancer of uterus, Treatment of, with radium and X-ray, W. P. Healy, 466.

Cancer, Palliative doses of roentgen ray in advanced, E. T. Leddy and J. L. Weatherwax,

271.
Cancer, Present status of radiation therapy in,
A. U. Desjardins, 224.

Cancer, Radiographic diagnosis of vertebral, with radiculo-medullary compression, Sicard, Forestier and Lermovez, 179.

Cancer, skin, Radium treatment for, F. C. Harrison, 503.
Cancer, X-ray treatment of, B. E. Rhudy, 85.
Cancers, Importance of histology in appreciation of radio-sensitiveness of epithelial, A. Lacassagne,

Carbuncles and other infections, Roentgen ray in treatment of, F. M. Hodges, 188. Carcinoma, mammary, Radiation in treatment of,

B. J. Lee, 454. Carcinoma of antrum, Radium treatment of, Frederick M. Johnson, 449.

Carcinoma of antrum, Treatment of, F. M. Johnson,

Carcinoma of bladder and prostate, Radium treatment of, B. S. Barringer, 522. Carcinoma of breast, Radiation in the treatment of,

George E. Pfahler, 526.

Carcinoma of esophagus, Some considerations in treatment of, Douglas Quick, 207.

Carcinoma of tonsil, Deep roentgen and radium therapy in, G. W. Grier, 322.

Carcinoma of uterine cervix, Technic and results in treatment of, at "Radiumhemmet," Stockholm, H. V. J. Heyman, 360.

Carcinoma of uterus, Results of X-ray therapy of, E. Muhlmann, 182.

Carcinoma, Primary, of gastro-intestinal tract accompanied by bone metastasis, E. L. Jenkinson, 271.

Cardiac examination, Value of roentgen-ray meas-urements in, D. S. Dann, 182.

Chest, X-ray studies of, in infants and children, H. K. Pancoast, 157.

Cholecystitis, Roentgenological diagnosis of chronic, F. S. Bissell, 68.

Circulation, Observations on a group of marathon runners, with special reference to the, B. Gordon, S. A. Levine and A. Wilmaers, 523.
Colon, Studies of, R. Walter Mills and H. W. So-

per, 447.

Congenital obstruction of median basilic vein and deep axillary lymph channels, Roentgen findings in case of, F. E. Diemer and F. E. Butler,

Coolidge tube quantitative variations, G. M. Mac-Kee and G. C. Andrews, 227. Cystograms: their clinical application and possible

misinterpretation, H. C. Bumpus, 471. Duodenal obstruction, Partial, G. E. Nesbitt, 359.

Duodenal ulcers, Newer phases in roentgen inter-pretation of, J. S. Diamond, 9.

Electricity, X-ray, ultra-violet ray and radium, Therapeutic uses of: Methods and results, Sinclair Tousey, 221.

Esophageal diverticula, J. H. Shephard, 292. Exophthalmic goiter, Roentgen-ray therapy in treatment of, G. M. Goodwin and W. B. Long, 54. Foreign bodies in bronchi, Clinical features of, Thomas M'Crae, 272.

Fracture work, Five years of, with special reference to open reductions, H. E. McGuire, 453.

Gastro-intestinal tract, Multiple polyposis of the, John E. Struthers, 528.

Gastrojejunocolic fistula, Diagnosis and treatment W. A. Brams and K. A. Meyer, 522.

Gynecology, Uses of X-ray in, M. E. Hanks, 269. Hearing, X-ray as advance in treatment of impaired, J. J. Richardson, 363.

Heart, Further observations upon shadows of thymus and, L. R. DeBuys and E. C. Samuels, 527. Hernias, Intra-abdominal, N. H. Copenhaver, 68.

Hodgkin's disease, Treatment of, by X-ray and ra-dium, based upon study of 200 cases, W. S. Stone, 525.

Hydrocephalus, Cerebral pneumography as aid in early diagnosis of, O. S. Wyatt, 73. Hyperthyroidism, X-ray therapy in toxic, H. K. Dun-

ham, 87. Infancy, Wasting disorders of early, L. G. Parsons, 360.

Intensifying screens and film, Some causes of poor contact between, R. B. Wilsey, 139.

Intestinal lesions and acute intoxication produced by radiation in variety of animals, S. L. Warren and G. H. Whipple, 86.

Intracranial pressure, Roentgen signs of increased, L. J. Friedman, 6.

Irradiation, Effect of, on Malignancy and Patient, S. S. Marchbanks and T. C. Crowell, 526.

Joint, Causes of and changes in loose bodies arising from articular surface of, D. B. Phemister, 450

Keloids, Roentgen-ray treatment of, H. H. Hazen, 393.

Larynx, Concerning the question of injuries to, by X-rays, H. Schmitz, 182.

Lipiodol, Use of, in diagnosis of bronchiectasis, P. F. Armand-Delille and Alan Moncrieff, 364. Lung, Massive collapse of, G. W. Holmes, 361.

Malignant disease and its treatment by X-rays, radium and electrocoagulation, G. E. Pfahler,

Mastoid disease, Studies of, by X-rays, with clinical observations and operative findings, M. S. Ersner. 449.

Mastoid disease, Studies of, by X-rays, with operative findings; demonstration of special localizer, G. E. Pfahler, 362.

Mediastinum and its contents, Disease of the, Charles E. Hamilton, 527.

Metabolic changes associated with X-ray and radium treatment, E. C. Dodds and J. H. D. Webster, 270.

Metabolism of human organism, Influence of X-rays on body juices and, A. Mahnert and H. Zacherl,

Myeloma, Anatomic and chemical report on unique case of, A. W. Meyer and F. A. Cajori, 525.

Neoplasms, Diagnosis of primary intrathoracic, G. F. Thomas and H. L. Farmer, 239.

Offspring, Effect on, of roentgen-ray treatment of the mother, L. F. Driessen, 357. Opaque substance, Use of strontium bromatum as,

182

Optic canal in cases of optic nerve involvement, Anatomic and X-ray study of, L. E. White, 90. Optic nerve involvements, Treatment of, as determined by optic canal radiographs, L. E. White,

451. Osteogenesis imperfecta, R. L. Knaggs, 181.

Osteoma of sphenoid bone and dural endothelioma: report of case, J. D. Camp, 346.

Osteomalacia, On late rickets and, H. S. Hutchison and Grace Stapleton, 525.

Paranasal sinuses, Malignant growths of, treated by irradiation, electrocoagulation and other methods, Rollin H. Stevens, 448.

Pernicious anemia, Roentgen-ray treatment of, P. Haggeney, 85.

Pleurisy of hilum region, Harold Swanberg, 525. Pneumoperitoneum by X-rays as means of diagnos-

ing ovarian tumors, A. Chueco, 179. Pneumothorax, Artificial, in treatment of pulmonary tuberculosis, E. D. Price, 453.

Pregnancies, Roentgen-ray diagnosis of normal and abnormal, E. Speidel and H. H. Turner, 451. Pulmonary affections, Value and limitations of roent-

gen ray in diagnosis of, B. P. Stivelman, 270. Pulmonary metastases, Value of physical signs in early detection of, L. F. Craver, 364.

Radiocastration in man, H. R. Schinz, 178.

Radiology, Influence of, upon our conception of disease, Thomas Horder, 262.

Radium, Action of, upon cancer of cervix, T. Zbinden, 89.

Radium, Three years' experience with, H. King, 19. Recklinghausen's neurofibromatosis, Bone changes in, B. Brooks and E. P. Lehman, 456.

Renal and ureteral surgery, Modern diagnostic methods in, E. H. Adams, 395. Respiratory disorders, Changes in lungs and bron-

chi due to upper, J. S. Pritchard, 25.

Roentgen effects, Experimental studies in, J. B. Murphy, 448.

Roentgen-ray intoxication and injuries, Consideration of assumed causes of, B. F. Schreiner and K. W. Stenstrom, 221.

Roentgen rays, Therapeutic application of, H. G. F. Edwards, 524.

Sarcoma, Roentgen-ray treatment of bone, M. B. Palmer, 387.

Skin malignancies, Fractional dose method in X-ray treatment of, J. M. and C. L. Martin, 436.

Sternum, Study of, by roentgen rays, G. E. Pfahler, 109.

Stomach, Diverticula of, E. S. Emery, Jr., 104. Stomach, Study of pressure hour-glass or cascade, R. A. Rendich and J. F. Connors, 407.

Superficial malignancies, Use of X-ray and radium in, A. M. Cole, 215.

Thoracoplasty, Extrapleural, in treatment of bron-chiectasis, C. A. Hedblom, 452.

Thoracoplasty, Some surgical considerations of extrapleural, A. A. Law, 452.

Three tubes, Flexible arrangement for simultaneous radiation of patient with, W. Stenstrom and T. Mueller, 327.

Thymus and the heart, Further observations upon the shadows of the, L. R. DeBuys and E. C. Samuels, 527.

Thymus gland enlargement in infants, E. J. Barnett, 89.

Thymus in children, Diagnosis and treatment of enlarged, H. Spohn, 88.

Thyrotoxicosis, Roentgen-ray therapy in: effect as measured by basal metabolic rate, J. M. Read,

86.
Tonsil, X-ray therapy of infected hypertrophic, E.
S. Blaine, 249.

Paration of paratonsillar tissues to,

G. Fetterolf, 85.

Tonsillitis and pharyngitis, Indications for roentgen therapy in chronic, W. D. Witherbee, 127. Traumatic intestinal rupture, Note on diagnostic

value of X-ray examination in, G. Massie, 344. Trichobezoars in stomach and their demonstration by roentgen examination, C. M. Rovsing, 89. Tuberculosis, pulmonary, Early diagnosis of, W. J.

Marcley, 454.

Tuberculosis, pulmonary, Value of X-ray in diag-nosis of, J. W. Laws, 362. Tuberculosis: review of sanatorium cases, D. A.

Stewart, 453. Tuberculous adenitis, X-rays and ultra-violet light associated in treatment of, J. Saidman and R. Robine, 167.

Tuberculous children, X-ray findings in, R. W. Morse, 456.

Tuberculous lymphadenitis, Results of treatment of, by X-rays at Lund, L. Edling, 180. Tumors of the sacrum, Ventral, Herman W. Hund-

ling, 535.

Tumors of trunk, Roentgenology of true mixed, H. Laurell, 180.

Tumors of uterus in mice, Primary spontaneous, Maud Slye, Harriet F. Holmes, and H. Gideon Wells, 360.

Tumors of uterus, Rôle of radium in benign and ma-lignant, T. E. Jones, 524.

Ureteropyelography (urography) in abdominal diagnosis, D. N. Eisendrath, 453.

Whooping cough, Notes on X-ray treatment of, J. J. Kingston and H. K. Faber, 87.

X-rays, Therapeutic aspect of short wave, A. Soiland, 75.

Acne vulgaris, Roy Blosser (abstract), 496.

Acromegaly following gigantism: report of case treated by X-ray, C. D. Enfield, 492.

Adamantine epithelioma, John T. Murphy, 377.

Adams, Enoch H., 395.

Aikins, W. H. B., 517.

Allen, Bundy, 136, 375, 392. Allison, Robert G., 222, 388. American Radium Society, officers, 207.

Andrews, G. C., 227.

Aneurysm of aorta, Roentgen diagnosis of, E. C. Samuel (abstract), 160.

Arens, Robert A., 110, 293. Armand-Delille, P. F., 364.

Arthritis, Age factor in hypertrophic, T. A. Willis (abstract), 501. Asnis, E. J., 273.

Atelectasis as roentgen-ray sign of foreign body in air passages, W. F. Manges (abstract), 300. Atheroma at arch of aorta, Report of two cases of cal-cified, K. T. Meyer, 250.

Bachem, Albert, 335. Backache from vertebral anomaly, T. A. Willis (abstract), 491.

Bacterial invasion of blood stream as influenced by X-ray destruction of mucosal epithelium of small intestine, S. L. Warren and G. H. Whipple (ab-

stract), 87. Ball, Clarence F., 390. Barclay, A. E., 514.
Barnett, E. J., 89.
Barringer, B. S., 522.
Beck, Joseph C., 323.
Beets, H. N., 293.

Bierman, Morris I., 233. Biological dosage, Physical measurements and comparative technic in relation to, H. N. Beets and R. A. Arens, 293.
Biophysical law governing surgical mortality, G. W.

Crile (abstract), 523.

Bissell, Frank S., 20, 68, 475.
Bladder, Study of tumors of, by means of pneumo-roentgenography, G. E. Pfahler, 197.

Blaine, E. S., 249.

Blood counts and basal metabolism of leukemias under roentgen-ray treatment, K. R. McAlpin and B. J. Sanger (abstract), 144. Bloodgood, Joseph C., 386, 432, 461.

Blosser, Roy, 496.
Blum, Theodor, 255.
Bone marrow, Effects of X-rays on, E. H. Falconer,

L. M. Morris and H. E. Ruggles (abstract), 135. Bone tumors, Clinical and pathologic study of ten, J. J. Morton and W. C. Duffy (abstract), 88.

Bone tumors, X-ray findings in: exostosis, chondromas, bone cysts, osteitis fibrosa cystica, giant cell tumors,

H. W. Meyerding, 216. Book reviews, 176, 267, 353, 443.

Bowing, H. H., 281. Boyd, R. C., 434. Brams, William A., 523.

Bronchiectasis, Extrapleural thoracoplasty in treatment of, C. A. Hedblom (abstract), 452.

Bronchiectasis, Use of lipiodol in diagnosis of, P. F. Armand-Delille and Alan Moncrieff (abstract), 364.

Brooks, Barney, 456. Bucky stand, New, L. K. Poyntz, 228.

Bumpus, Hermon C., 471. Burrows, Montrose T., 527.

Butler, Frank E., 431.

Cajori, F. A., 525. Calcified areas in bony pelvis, Shadows of, C. G. Sutherland, 69.

Camp, J. D., 9, 104, 109, 127, 135, 139, 160, 163, 181, 188, 207, 221, 227, 239, 270, 271, 300, 322, 346, 361, 387, 393, 447, 448.

Cameron, W. H., 140.

Cancer, breast, Metastasis in, W. A. Coventry (ab-

stract), 522.

Cancer, Factors regulating cellular growth and their importance in the explanation of, Montrose T. Burrows, 527.

Cancer, Human, in relation to heredity, H. G. Wells, 60.

Cancer, Influence of radiation therapy on study of,

James Ewing (abstract), 485. Cancer, intra-oral, Treatment of, Douglas Quick (abstract), 450.

Cancer, Limitations in radiotherapy of, F. C. Wood (abstract), 59.

Cancer of cervix, S. Forsdike (abstract), 363.

Cancer of cervix, Action of radium upon, T. Zbinden (abstract), 89.

Cancer of esophagus in general practice, G. F. Helsley (abstract), 272.

Cancer of larynx, Intrinsic, H. Smith (abstract), 363. Cancer of uterus, Clinical observations in treatment of, A. J. Ochsner (abstract), 401.

Cancer of uterus, Treatment of, C. W. Moots (abstract),

Cancer of uterus, Treatment of, with radium and X-ray,
W. P. Healy (abstract), 466.

Cancer, Palliative doses of roentgen ray in advanced, E. T. Leddy and J. L. Weatherwax (abstract), 271. Cancer patient, Management of the inoperable, H. J.

Ullmann, 497. Cancer, Present status of radiation therapy in, A. U.

Desjardins (abstract), 224. Cancer, Radiographic diagnosis of vertebral, with radiculo-medullary compression, Sicard, Forestier and Lermoyez (abstract), 179.

Cancer, skin, Radium treatment for, F. C. Harrison (abstract), 503.

Cancer therapy, Facts and theories in, R. H. Stevens,

Cancer, X-ray treatment of, B. E. Rhudy (abstract), 85. Cancer. See also Carcinoma and Tumors.

Cancers, Importance of histology in appreciation of radio-sensitiveness of epithelial, A. Lacassagne (abstract), 180.

Carbuncles and other infections, Roentgen ray in treatment of, F. M. Hodges (abstract), 188.

Carcinoma, mammary, Radiation in treatment of, B. J. Lee (abstract), 454.

Carcinoma of antrum, Primary: report of case, Theodor Blum, 255.

Carcinoma of antrum, Radium treatment of, Frederick M. Johnson (abstract), 449.

Carcinoma of antrum, Treatment of, F. M. Johnson (abstract), 398.

Carcinoma of bladder and prostate, Radium treatment of, B. S. Barringer (abstract), 522.

Carcinoma of breast, Radiation in the treatment of, George E. Pfahler (abstract), 526.

Carcinoma of esophagus, Some considerations in treatment of, Douglas Quick (abstract), 207.

Carcinoma of tonsil, Deep roentgen and radium therapy

in, G. W. Grier (abstract), 322.

Carcinoma of uterine cervix, Technic and results in treatment of, at "Radiumhemmet," Stockholm, H. V. J. Heyman (abstract), 360.

Carcinoma of uterus, Results of X-ray therapy of, E. Muhlmann (abstract), 182.

Carcinoma, Primary, of gastro-intestinal tract accompanied by bone metastasis, E. L. Jenkinson (abstract), 271.

Cardiac examination, Value of roentgen-ray measurements in, D. S. Dann (abstract), 182. Carman, Russell D., 26, 185, 408, 446.

Carr, W. M., 257. Carter, L. J., 189.

Chest, Gross pathology of, W. Walter Wasson, 49.
Chest, X-ray studies of, in infants and children, H. K.
- Pancoast (abstract), 157.

Chests, Improved radiographic technic for, E. B. Knerr,

Childs, S. B., 103, 261.

Chloroma, Bone findings in, Robert G. Allison, 388. Cholecystitis, Roentgenological diagnosis of chronic, F. S. Bissell (abstract), 68.

Christie, A. C., 183. Chueco, A., 179.

Circulation, Observations on group of marathon runners, with special reference to, B. Gordon, S. A. Levine and A. Wilmaers (abstract), 523.

Cirrhosis of lung, L. R. Sante, 128. Clark, W. L., 273. Cole, A. M., 215. Cole, L. G., 475.

Colon, Report of case of giant, with impacted feces in sigmoid, C. G. Sutherland, 259.
 Colon, Studies of, R. Walter Mills and H. W. Soper

(abstract), 447.

Compton, Arthur H., 479. Congenital obstruction of median basilic vein and deep axillary lymph channels, Roentgen findings in case of, F. E. Diener and F. E. Butler (abstract), 431.

Connors, John F., 407. Coolidge tube quantitative variations, G. M. MacKee and G. C. Andrews (abstract), 227.

Copenhaver, N. H., 68.

Copenhaver, N. H., 68.
Costolow, William E., 23.
Coventry, W. A., 522.
Craver, Lloyd F., 364.
Crile, George W., 524.
Cron, R. S., 114.
Crowell, T. C., 526.
Culpepper, W. L., 357.
Cushway, B. C., 362, 449, 451, 525.
Cystograms: their clinical application

Cystograms: their clinical application and possible misinterpretation, H. C. Bumpus (abstract), 471.

Dann, D. S., 182. Darling, Byron C., 391, 486. Davis, Kenneth S., 150, 185, 301.

DeBuys, L. R., 527

Deep therapy simplified, C. H. Nims, 394.

Dental radiographs, Interpretation of, H. W. MacMillan,

Dentistry. Post-operative X-ray examination in, B. S. Gardner, 74.
Desjardins, A. U., 224, 516, 517.
Diamond, J. S., 9.

Diaphragmatic hernia, non-traumatic, M. I. Bierman,

Diaphragmatic hernia, Roentgenologic diagnosis of, R. D. Carman and S. Fineman, 26.

Diemer, F. E., 160, 431. Dodds, E. C., 270. Dorland, W. A. Newman, 10, 114.

Doub, H. P., 365. Driessen, L. F., 357. Duffy, William C., 88.

359

Dunham, H. Kennon, 87. Duodenal obstruction, Partial, G. E. Nesbitt (abstract),

Duodenal ulcers, Newer phases in roentgen interpretation of, J. S. Diamond (abstract), 9.

Edling, L., 180. Edwards, Harold G. F., 525.

Eisen, Paul, 225.

Eisendrath, Daniel N., 453. Electricity, X-ray, ultra-violet ray, and radium, Therapeutic uses of: methods and results, Sinclair Tou-

sey (abstract), 221. Emery, E. S., Jr., 104. Enfield, Charles D., 492. Ernst, Edwin C., 178. Ersner, Matthew S., 449.

Esophageal diverticula, J. H. Shephard (abstract), 292. Esophagus, Some considerations in treatment of carcinoma of, Douglas Quick (abstract), 207.

Esophagus, Value of X-ray in diagnosis and treatment of diseases of, P. P. Vinson, 105.

Ewing, James, 485.

Exophthalmic goiter, Roentgen-ray therapy in treatment of, G. M. Goodwin and W. B. Long (abstract), 54.

Faber, Harold K., 87. Falconer, E. H., 135. Farmer, H. L., 239.

Fecolith, Case report of large, S. B. Childs, 261. Fetal reentgenograms, Interpretation of early, I. F. Stein and R. A. Arens, 110.

Fetterolf, G., 85.

Film cabinet, Light-proof, E. Schons, 48. Films, Regulations for handling and storing X-ray, 265. Fineman, Solomon, 26, 249, 262, 272, 292, 327, 344,

359, 360, 363, 364, 452-454, 456. Foreign bodies in bronchi, Clinical features of, Thomas M'Crae (abstract), 272.

-, 179. Forestier, —, 179. Forsdike, Sidney, 363.

Fracture table for fluoroscopic examination of fractures under extension, L. R. Sante, 46.

Fracture work, Five years of, with special reference to open reductions, H. E. McGuire (abstract), 453. Fractures, Check, F. E. Diemer, 160.

Friedman, Lewis J., 6.

Gardner, B. S., 74, 164, 254. Gastro-intestinal tract, Multiple polyposis of the, John E. Struthers (abstract), 528.

Gastrojejunocolic fistula, Diagnosis and treatment of, W. A. Brams and K. A. Meyer (abstract), 522.

Glasser, Otto, 202. Goodwin, G. M., 54

Gordon, Burgess, 523.
Grandy, C. C., 168.
Granger, Amédée, 55, 208.
Granger line, Value of, in diagnosis of disease of sphenoid sinus, with illustrative cases, Amédée

Granger, 208. Granger mask for Waters' position, I. S. Trostler, 260.

Grier, G. W., 322. Groover, T. A., 183.

Gynecology, Uses of X-ray in, M. E. Hanks (abstract),

Haggeney, P., 85. Hair ball, Case of, W. M. Carr, 257.

Hamilton, Charles E., 528. Hanks, M. E., 269.

Harrison, Frederick C., 503. Hart, W. E., 509. Hayes, Robert H., 474.

Hazen, H. H., 393.

Head and neck, Pre-operative and post-operative inter-pretation of X-ray films about, J. C. Beck and F. L. Lederer, 323.

Healy, William P., 466.

Hearing, X-ray as advance in treatment of impaired, J. J. Richardson (abstract), 363.

Heart, Further observations upon shadows of thymus and, L. R. DeBuys and E. C. Samuels (abstract), 527.

Heart, Rational method for demonstrating, Paul Eisen, 225.

Hedblom, Carl A., 452. Helsley, G. F., 272.

Hemangioma, with calcification: pre- and post-opera-tive X-ray findings, H. J. Ravold, 231.

Heredity, Human cancer in relation to, H. G. Wells, 60. Hernias, Intra-abdominal, N. H. Copenhaven (abstract), 68.

Herrick, J. F., 116. Heyman, H. V. James, 360. Hirsch, I. Seth, 107.

Hodges, F. M., 188.

Hodgkin's disease, Treatment of, by X-ray and radium, based upon study of 200 cases, W. S. Stone (ab-

based upon study of 2 stract), 525. Holmes, G. W., 361. Holmes, Harriet F., 360. Horder, Thomas, 262. Horsley, C. B., 425, 502. Howard, M. R., 164. Hubeny, M. J., 268, 269. Hundling, Herman W., 535. Hunter, I. W., 431.

Hunter, J. W., 431. Hutchison, H. S., 525.

Hydrocephalus, Cerebral pneumography as aid in early diagnosis of, O. S. Wyatt (abstract), 73.

Hyperthyroidism and toxic goiter, X-ray treatment of, C. Augustus Simpson, 427.

Hyperthyroidism, X-ray therapy in toxic, H. K. Dunham (abstract), 87.

Industrial surgery: its relation to radiology, A. J. Mitchell, 80. Infancy, Wasting disorders of early, L. G. Parsons (ab-

stract), 360. Intensifying screens and film, Some causes of poor con-

tact between, R. B. Wilsey (abstract), 139. International Congress in Radiology, London, 264. Intestinal lesions and acute intoxication produced by radiation in variety of animals, S. L. Warren and

G. H. Whipple (abstract), 86. Intracranial pressure, Roentgen signs of increased, L. J. Friedman (abstract), 6.

Intrathoracic changes following X-ray treatment: clinical and experimental study, K. S. Davis, 301.

Irradiation, Effect of, on malignancy and patient, S. S. Marchbanks and T. C. Crowell (abstract), 526.

Jarre, Hans A., 182.

Jaw, Roentgenologic diagnosis of pathologic conditions

of, G. B. New, 165. Jenkinson, E. L., 271.

Johnson, Frederick M., 398, 449.

Johnson, J. B., 240.

Joint, Causes of and changes in loose bodies arising from articular surface of, D. B. Phemister (abstract), 450.

Jones, Thomas E., 524.

Kegerreis, Roy, 141. Keloids, Roentgen-ray treatment of, H. H. Hazen (ab-

stract), 393. Kessler, E. H., 102, 246. King, Howard, 19. Kingston, John J., 87. Knaggs, R. L., 181. Knerr, E. B., 149, 476.

L

Lacassagne, A., 180. Larynx, Concerning the question of injuries to, by Xrays, H. Schmitz (abstract), 182,

Laurell, H., 180. Law, Arthur A., 452. Laws, J. W., 362. Leddy, E. T., 271. Lederer, Francis L., 323. Lee, Burton J., 454.

Lehman, Edwin P., 456. Lermoyez, —, 17 Levine, S. A., 523. -, 179.

Levyn, Lester, 145. LeWald, L. T., 79, 91, 109, 389, 418. Lipiodol, Use of, in diagnosis of bronchiectasis, P. F.

Armand-Delille and Alan Moncrieff (abstract), 364. Localizing roots of teeth, residual granulomas or foreign bodies, Method of, B. S. Gardner, 254.

Long, W. B., 54.

Long abscess, Indications for use of therapeutic pneumothorax in, H. M. Rich, 472.
 Lung, Cirrhosis of, L. R. Sante, 128.
 Lung, Massive collapse of, G. W. Holmes, 361.
 Lymphatic system, Study of, in relation to high voltage X-ray therapy, R. T. Wilson and J. B. Johnson, 240.

McAlpin, K. R., 144. McArthur, Lewis L., 7. McCandless, O. H., 82. M'Crae, Thomas, 272.

McGuire, H. E., 453. MacKee, G. M., 227.

MacMillan, Hugh W., 340. MacRae, John D., 464, 478.

Madelung's deformity, Lester Levyn, 145. Mahnert, A., 182.

Malarial parasite in Vitro, Observation of effect of X-ray and radium upon, L. J. Menville, 399.

Malignant disease and its treatment by X-rays, radium and electrocoagulation, G. E. Pfahler (abstract), 89. Malpractice case decision, An important, I. S. Trostler, 345.

Manges, Willis F., 300. Marchbanks, S. S., 526. Marcley, Walter J., 454. Marquis, W. J., 25. Martin, C. L., 436. Martin, J. M., 436.

Massie, Grant, 344.

Mastoid disease, Studies in, by X-rays, with clinical observations and operative findings, M. S. Ersner (abstract), 449.

Mastoid disease, Studies of, by X-rays, with operative findings: demonstration of special localizer, G. E. Pfahler, 362.

Mediastinum and its contents, Disease of the, Charles E. Hamilton (abstract), 527.

Menville, Leon J., 118, 399.

Merritt, E. A., 183.

Metabolic changes associated with X-ray and radium treatment, E. C. Dodds and J. H. D. Webster (abstract), 270.

Metabolism of human organism, Influence of X-rays on body juices and, A. Mahnert and H. Zacherl (ab-

stract), 182. Meyer, A. W., 525. Meyer, Karl A., 523. Meyer, Keith T., 250.

Meyerding, Henry W., 216, 457.

Miller, Albert, 408.

Mills, R. Walter, 447. Mistakes, Our, E. H. Kessler, 246.

Mitchell, A. J., 82.

Molt, Frederick, 79. Moncrieff, Alan, 364. Moots, Charles W., 90. Morgan, J. D., 273, 299. Morris, L. M., 135. Morse, R. W., 456. Morton, John J., 88. Mueller, Theodor, 327. Muhlmann, E., 182. Murphy, John T., 377. Murphy, J. B., 448. Mutscheller, A., 328.

Myeloma, Anatomic and chemical report on unique case of, A. W. Meyer and F. A. Cajori (abstract), 525. Myxoma of lung, C. G. Sutherland, 161.

Nassau, Charles F., 297. Neoplasms, Diagnosis of primary intrathoracic, G. F. Thomas and H. L. Farmer (abstract), 239. Nesbitt, G. E., 359. New, Gordon B., 165. Newell, R. R., 116. Nichols, B. H., 1. Nims, Charles H., 394.

Obstetric roentgenography, W. A. N. Dorland, 10. Occupational hazards of radiologist, with special reference to changes in blood, R. D. Carman and Albert Miller, 408.

Ochsner, A. J., 401. Offspring, Effect on, of roentgen-ray treatment of the mother, L. F. Driessen (abstract), 357.

Opaque substance, Use of strontium bromatum as (abstract)

stract), 182.

Optic canal in cases of optic nerve involvement, Anatomic and X-ray study of, L. E. White (abstract),

Optic nerve involvements, Treatment of, as determined by optic canal radiographs, L. E. White (abstract),

Osseous dystrophies, H. P. Doub and C. W. Peabody, 365.

Osteochondromatosis in hip-joint: report of case, C. G. Sutherland, 285.

Osteogenesis imperfecta, R. L. Knaggs (abstract), 181. Osteoma of sphenoid bone and dural endothelioma: report of case, J. D. Camp (abstract), 346.

Osteomalacia, On late rickets and, H. S. Hutchison and Grace Stapleton (abstract), 525.

Palmer, M. B., 387.

Pancoast, H. K., 157. Paranasal sinuses, Malignant growths of, treated by irradiation, electrocoagulation and other sinuses, R. H. Stevens (abstract), 448.

Parsons, L. G., 360. Pathological fractures, Bundy Allen, 375.

Pathology in right upper abdomen, L. J. Carter, 189.

Peabody, C. W., 365, 392.

Pelvis, Shadows of calcified areas in bony, C. G. Suther-

Periosteal bone lesions, Differential diagnosis of, 432. Pernicious anemia, Roentgen-ray treatment of, P. Haggeney (abstract), 85.

Pfahler, George E., 89, 109, 197, 282, 297, 362, 418, 501, 527.

"Phasing in" a disk (Advanced trouble shooting), C. B. Horsley, 425.

Phemister, D. B., 450.

Pleurisy of hilum region, Harold Swanberg (abstract),

Pneumoperitoneum by X-rays as means of diagnosing ovarian tumors, A. Chueco (abstract), 179.

Pneumo-roentgenography, Study of tumors of bladder by means of, G. E. Pfahler, 197.

Pneumothorax, Artificial, in treatment of pulmonary tuberculosis, E. D. Price (abstract), 453.

Pohle, Ernst A., 504. Poyntz, Louis K., 228.

Pregnancies, Roentgen-ray diagnosis of normal and ab-normal, Edward Speidel and H. H. Turner (abstract), 451

Price, E. D., 453. Pritchard, J. S., 25.

Pulmonary affections, Value and limitations of roentgen ray in diagnosis of, B. P. Stivelman (abstract), 270. Pulmonary fibrosis, Kenneth S. Davis, 150.

Pulmonary metastases, Value of physical signs in early detection of, L. F. Craver, 364.

Pulmonary streptococcicosis, Chronic, F. S. Bissell, 20. Pulmonary tuberculosis. See under Tuberculosis.

Quick, Douglas, 207, 450.

R

Radiocastration in man, H. R. Schinz (abstract), 178. Radiodermatitis, Case of malignant degeneration in, successfully treated by electrocoagulation and skingrafting, G. E. Pfahler and C. F. Nassau, 297. Radiographs, Method of mounting, and tests for vitality,

R. C. Boyd, 434.

Radiologist, Occupational hazards of, with special reference to changes in blood, R. D. Carman and Albert Miller, 408.

Radiology, Influence of, upon our conception of disease,

Thomas Horder (abstract), 262.
Radiology, New department of, St. Louis City Hospital, L. R. Sante, 402. Radium, Action of, upon cancer of cervix, T. Zbinden

(abstract), 89. Radium, Points to be considered in application of, W. H.

Cameron, 140.

Radium, Three years' experience with, H. King (abstract), 19.

Radium, X-rays and the Living Cell, H. A. Colwell and Sidney Russ (review), 176. Ravold, H. J., 231.

Read, J. Marion, 86.

Recklinghausen's neurofibromatosis, Bone changes in, B. Brooks and E. P. Lehman (abstract), 456. Renal and ureteral surgery, Modern diagnostic methods

in, E. H. Adams (abstract), 395. Rendich, Richard A., 407.

Respiratory disorders, Changes in lungs and bronchi due to upper, J. S. Pritchard (abstract), 25. Rhudy, B. E., 85.

Rich, Herbert M., 472, 477. Richardson, J. J., 363.

Robine, R., 167.

Roentgen effects, Experimental studies in, J. B. Murphy (abstract), 448.

Roentgen-ray intoxication and injuries, Consideration of assumed causes of, B. F. Schreiner and K. W. Stenstrom (abstract), 221.

Roentgen rays, Therapeutic application of, H. G. F. Edwards (abstract), 524.

Roentgenological evidence of spinal-cord tumors: report of three cases, R. D. Carman and K. S. Davis, 185. Roentgenology of urinary tract, Special points in, B. H.

Nichols, 1. Ross, W. L., 283, 392. Rovsing, C. M., 89. Rowe, Edward W., 158. Ruggles, H. E., 135.

Sacro-iliac joint: its diagnosis as determined by X-ray, B. C. Darling, 486.

Saidman, J., 167. Samuels, E. C., 160, 527. Sandborn, Manly J., 349.

Sandorn, Many J., 572.
Sanger, B. J., 144.
Sante, L. R., 46, 68, 86-88, 90, 128, 401, 402, 449-453, 456, 467, 471, 477, 491, 522-523, 523-524, 525, 528. Sarcoma of long bones, Roentgenographic types of, H. W.

Meyerding, 457.

Sarcoma, Roentgen-ray treatment of bone, M. B. Palmer

(abstract), 387. Schinz, H. R., 179. Schmitz, H., 182. Schons, Edward, 48. Schreiner, B. F., 221.

Seemann spectograph, Otto Glasser, 202.

Shadows in aortic and hilar regions? What produces, A. Granger, 55.

Shephard, John H., 292.

Short wave X-rays in other than deep conditions, A. Soiland and W. E. Costolow, 23.

Shoulder, Pulmonary tuberculosis as cause of pain in, T. A. Groover, A. C. Christie, and E. A. Merritt, 183.

Sicard, —, 179.
Simpson, C. Augustus, 427.
Simpson, Clarence O., 76.
Sinuses, Nasal accessory, in infants and children, Bundy Allen, 136. Sittenfield, M. J., 283.

Skin malignancies, Fractional dose method in X-ray treatment of, J. M. and C. L. Martin (abstract), 436.

Skinner, E. H., 103, 176, 268, 351, 356, 446.

Slye, Maud, 360. Smith, Harmon, 363.

Soiland, Albert, 23, 75, 169, 170, 417.

Soper, H. W., 447. Southard, J. D., 419. Speidel, Edward, 451.

Spinal-cord tumors, Roentgenological evidence of: report of three cases, R. D. Carman and K. S. Davis, 185.

Spohn, Howard, 88. Stapleton, Grace, 525.

Stein, Irving F., 110.
Stenstrom, K. W., 221.
Stenstrom, Wilhelm, 327.
Sternum, Study of, by roentgen rays, G. E. Pfahler (abstract), 109.

Stevens, Rollin H., 286, 438, 448.

Stewart, D. A., 453.

Stivelman, B. P., 270. Stomach, Acute dilatation of, W. E. Hart, 509.

Stomach, Dilatation and atony of, in severe diabetes, R. G. Allison, 222.

Stomach, Diverticula of, E. S. Emery, Jr. (abstract), 104. Stomach, Study of pressure hour-glass or cascade, R. A. Rendich and J. F. Connors (abstract), 407.

Stomach, Thoracic: differentiation from eventration and hernia of diaphragm, L. T. LeWald, 91.

Stone, William S., 526. Struthers, John E., 528.

Superficial malignancies, Use of X-ray and radium in, A. M. Cole (abstract), 215.

Surgeon's standpoint, Therapeutic radiation from, L. L. McArthur, 7.

Sutherland, Charles G., 69, 161, 259, 285, 420. Swanberg, Harold, 525.

Therapeutic radiation from surgeon's standpoint, L. L. McArthur, 7.

Thomas, G. F., 239.

Thoracic stomach: differentiation from eventration and hernia of diaphragm, L. T. LeWald, 91.

Thoracoplasty, Extrapleural, in treatment of bronchiectasis, C. A. Hedblom (abstract), 452.

Thoracoplasty, Some surgical considerations of extrapleural, Arthur A. Law (abstract), 452.

Three tubes, Flexible arrangement for simultaneous radiation of patient with, W. Stenstrom and T. Mueller (abstract), 327.

Thymus and the heart, Further observations upon the shadows of the, L. R. DeBuys and E. C. Samuels (abstract), 527.

Thymus gland enlargement in infants, E. J. Barnett (abstract), 89.

Thymus in children, Diagnosis and treatment of enlarged, H. Spohn (abstract), 88.

Thyrotoxicosis, Roentgen-ray therapy in: effect as measured by basal metabolic rate, J. M. Read (abstract),

Timing devices, Top for testing, E. G. C. Williams, 161. Tonsil, X-ray therapy of infected hypertrophic, E. S. Blaine (abstract), 249.

Tonsillectomy, Relation of paratonsillar tissues to, G. Fetterolf (abstract), 85.

Tonsillitis and pharyngitis, Indications for roentgen therapy in chronic, W. D. Witherbee (abstract),

Tousey, Sinclair, 221.

Tovell, H. M., 523.

Toxic goiter, X-ray treatment of hyperthyroidism and, C. Augustus Simpson, 427.

Transformer, Testing the (Advanced trouble shooting), C. B. Horsley, 502.

Traumatic intestinal rupture, Note on diagnostic value of X-ray examination in, G. Massie (abstract), 344.

Trichobezoars in stomach and their demonstration by roentgen examination, C. M. Rovsing (abstract),

Trigeminal branch of the Society, Reflex from, C. O. Simpson, 76.

Trostler, I. S., 260, 345, 474, 518-521.

Trouble shooting, Advanced, C. B. Horsley, 425, 502. Tuberculosis, General aspect of, as presented by X-rays, J. D. MacRae, 464.

Tuberculosis, Pathognomonic radiographic finding in early pulmonary, Robert H. Hayes and I. S. Trostler, 474.

Tuberculosis, pulmonary, Artificial pneumothorax in treatment of, E. D. Price (abstract), 453.

Tuberculosis, Pulmonary, as cause of pain in shoulder, T. A. Groover, A. C. Christie and E. A. Merritt, 183. Tuberculosis, pulmonary, Early diagnosis of, W. J. Marcley (abstract), 454.

Tuberculosis, pulmonary, Value of X-ray in diagnosis of J. W. Laws (abstract), 362.

Tuberculosis: review of sanatorium cases, D. A. Stewart (abstract), 453.

Tuberculosis, Study of miliary, by serial radiographic examination, L. R. Sante, 467.

Tuberculous adenitis, X-rays and ultra-violet light associated in treatment of, J. Saidman and R. Robine (abstract), 167.

Tuberculous children, X-ray findings in, R. W. Morse (abstract), 456.

Tuberculous lymphadenitis, Results of treatment of, by X-rays at Lund, L. Edling (abstract), 180.

Tumors of bladder, Study of, by means of pneumo-roent-genography, G. E. Pfahler, 197.

Tumors of the sacrum, Ventral, Herman W. Hundling (abstract), 535.

Tumors of trunk, Roentgenology of true mixed, H. Laurell (abstract), 180.

- Tumors of uterus in mice, Primary spontaneous, Maud Slye, Harriet F. Holmes and H. Gideon Wells (abstract), 360.
- Tumors of uterus, Rôle of radium in benign and malignant, T. E. Jones (abstract), 524. Turner, Henry H., 451.

- Ullmann, H. J., 117, 282, 417, 497. Ureteropyelography (urography) in abdominal diagnosis, D. N. Eisendrath (abstract), 453.
- Urinary tract, Special points in roentgenology of, B. H. Nichols, 1.

- Vacuum measurements on X-ray tubes, Oscar Weinreb,
- Vinson, P. P., 105.
- Vitality, Tests for, and method of mounting radiographs, R. C. Boyd, 434.

- Warren, S. L., 86, 87.
- Wasson, W. Walter, 49.
 Wasson, W. W. 6, 19, 54, 59, 68, 73, 85-90, 144, 157, 182, 215, 221, 224, 269, 270, 362, 364, 395, 398, 401, 431, 436, 450, 453, 454, 466, 485, 496, 503, 522, 523, 524, 524, 525, 525, 525, 525, 525
- 524-525, 525-528.
- Weatherwax, J. L., 271. Webster, J. H. D., 270. Weinreb, Oscar, 396. Wells, H. Gideon, 60, 360.

- Whipple, G. H., 86, 87. White, Leon E., 90, 451.

- Whooping cough, Notes on X-ray treatment of, J. J. Kingston and H. K. Faber (abstract), 87. Williams, E. G. C., 161. Willis, Theodore A., 491, 501.

- Wilmaers, A., 523.
 Wilsey, R. B., 139.
 Wilson, R. T., 240.
 Witherbee, W. D., 127.
 Wood, Francis Carter, 59.
- Wyatt, Oswald S., 73.

X

- X-radiation technic, Preliminary report on modified, W. L. Clark, J. D. Morgan, and E. J. Asnis, 273.
- X-ray and Radium Dosages, Principles of, Albert Bachem (review), 177.
- X-ray and Radium Protection Committee reports, 171. X-ray dosage, Unfiltered and filtered, Albert Bachem,
- X-ray film clip, New type of, J. D. Camp, 163.
- X-ray machines, Apparatus for calibration of, Roy Kegerreis, 141.
- X-ray treatment unit, Compact, E. W. Rowe, 158. X-rays, Average wave lengths of, A. Mutscheller, 328.
- X-rays, Experimental work bearing upon standardization of absorptive powers of, by salts of various metals, L. J. Menville, 118.
- X-rays, Measurements of the quality and quantity of, in
- deep therapy, E. A. Pohle, 504.
 X-rays, Scattering of, A. H. Compton, 479.
 X-rays, Therapeutic aspect of short wave, A. Soiland (abstract), 75.

Z

Zacherl, H., 182. Zbinden, Theodore, 89.

